

THUTZHUAL SUPPORT NO14

PHENIX WEEKLY PLANNING



May 15, 2014 Don Lynch



PHENIX

This Week

- Run 14 Continues
- · Controlled access Monday- swapped (F)VTX chillers for pump seal failure.
- Restricted access maintenance day yesterday:
 - Removed MPC-Ex FEM boxes
 - · Re-install delayed to 5/28/14 (or earlier) to allow for board rework,
 - Other work?
- Next maintenance access day 5/28/14
- Plan for 2014 Shutdown
- Tech Support for Run 14 as required
- Support for sPHENIX efforts as required





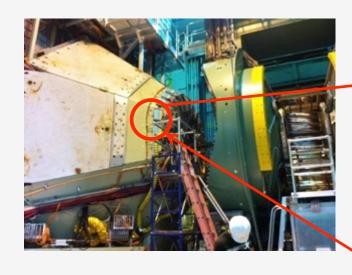
THUHZHUAL SUPPORT NO14

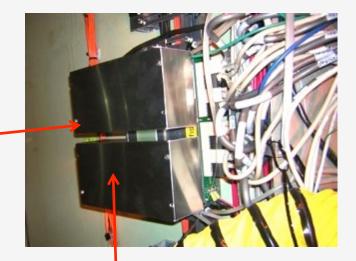
Next Week

- Run 14 Continues
- Next access 5/28
 - MPC-EX FEM board re-install
 - Other work?
- Plan for 2014 Shutdown
- Tech Support for Run 14 as required
- Support for sPHENIX efforts as required



MPC-Ex Initial (Partial) Installation







FEM modules removed, waiting for board rework



2014 planned Technical Support & 2014 Shutdown

_
Ţ
H
N
T
Ä
L
3
P
P
Q
R
•
2
Q
ļ

Support for run 14	2/3-6/30/2014		
Procure & Fabricate parts for MPC-Ex North and South	1/1/2014-6/30/2014		
Assemble & test MPC-Ex South, ready for installation	3/1-7/1/2014		
Set up Physics lab for FVTX/VTX east	6/15/2014		
End of Run Party	6/27/2014?		
MuID Efficiency Measurement (Itaru, requires cooling water & isobutane)	7/7/2014		
Assemble & test MPC-Ex North, ready for installation	7/1-9/25/2014		
Start of Shutdown Tasks (purge flammable gas, disassemble and	771 372372011		
stow shield wall, remove collars, move EC to AH, Move			
MMS south, etc.)	7/14 - 7/25/2014		
Remove FVTX/VTX East to PHYSICS?, repair and reinstall	7/14 - 9/15/2014		
Remove MMS east vertical lampshade	7/28-7/30/2014		
Troubleshoot intermittent water leak in MMS	7/30- 8/8/2014		
Other Maint. In MMS	TBD		
Reinstall MMS east vertical lampshade	TBD		
Summer Sunday prep AH, tours and restore AH 7/30-8/15/20			
Install scaffolding in Sta 1 South 7/28/2014			
Remove MPC-Ex prototype, Install new MPC-Ex South	7/28-8/22/2014		
MuTr Sta 1 South troubleshooting and repairs	7/28-8/22/2014		
Maint. & Repairs for MPC South, BBC South, RPC1 South, MuTr sta 1	7720 072272011		
South, as necessary	7/28-8/22/2014		
Remove scaffolding from sta 1 south, Move CM South	8/25/2014		
Install scaffolding in Sta 1 North	8/26-8/29/2014		
	8/29-10/17/2014		
MuTr Sta 1 & Sta. North troubleshooting and repairs			
Prep MPC-Ex North installation area	9/1-9/26/2014		
Install new MPC-Ex North	9/29-10/17/2014		



2014 planned Technical Support & 2014 Shutdown (cont'd)

TECHZHCAL
SUPPORT
2014

Remove Sta 1 North scaffolds, Move CM North Other detector support Infrastructure Maintenance and Improvement Decommissioning of obsolete PHENIX detector equipment sPHENIX Support End of Shutdown Tasks (Move MS north, roll in EC, install collars, remove 10 ton cart, plates and manlifts, build shield wall, etc.) 10/27-11/26/2014	10/20-10/24/2014 TBD TBD TBD on-going
Pink/White/Blue Sheets	1/17/2014
End of Shutdown Party ????	
Start Flammable gas flow	5555
Close shield wall, install radiation interlocks and prepare for run 14 Start run 15	12/31/2014 1/2/2015

TECHZHCAL SUPPORT 2014

Muon Tracker Shutdown Work List - summer 2014

- testing as MPC-EX installed, particularly before closing Sta-1's
- fix North Arcnet N.2.7.1, North Sta-2 Oct-7 Chassis-1 (bad cable?)
- fix packets that were disabled for Run14
 - 11035,36 South Sta-1 Quad-4 Chassis-3
 - 11267,68 North Sta-2 Oct-7 Chassis-2
- replace boards for most frequent FEM problems from run
 - 11195 North Sta-1 Quad-3 Chassis-3?
 - might have already done this; check history (changed RX 3/14/12)
 - 11064 South Sta-2 Oct-3 Chassis-3 unreachable
- N341 HV trip problem?
- auto-reboots of ArcNet and iocondev's for calibration?
- · Access needed:
 - · South & North Sta-1
 - Inside North Sta-2 on bottom
- Main Issue Manpower



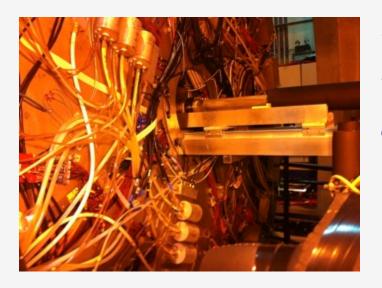








MPC-Ex N & S Final Installations This summer

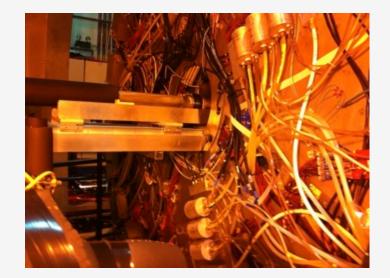


Working on North BP support design

Tungsten plates received, QC acceptable

Check production schedule for modules and boards







TECHZHUAL SUPPORT 2014



VTX/FVTX east repairs/ upgrades required

West to remain installed

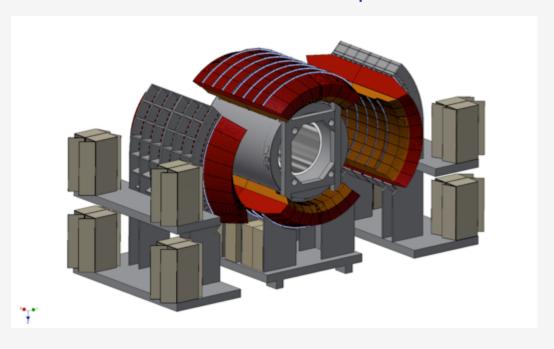
Need to get PHYSICS FVTX/VTX lab ready by ~ mid June





sPHENIX "Outie" Concept

THUHZHUAL SUPPORT

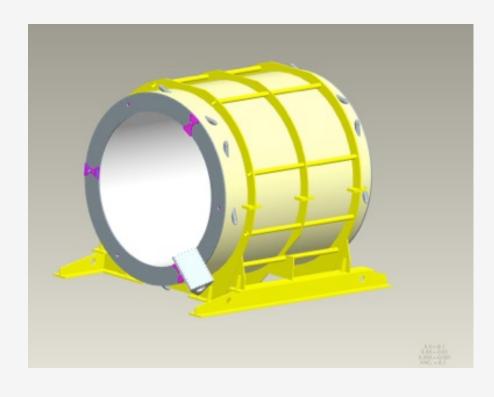


2014

This is the design we will continue to pursue until if and when a final decision directs us to the "innie" option

5/15/2014

11



BABAR Magnet Transport meeting next week

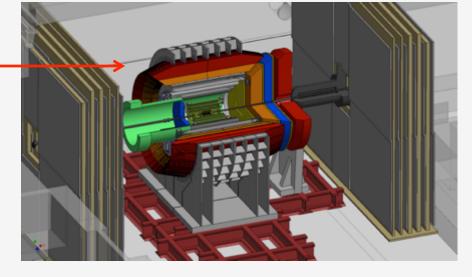
Expect to bring Magnet to BNL by 9/1/2014

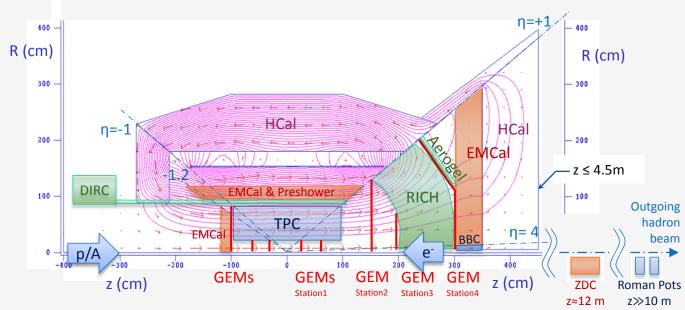


THUTZHUAL SUPPORT NO14

2ft high x 1 ft wide clearance needed for e-ring components

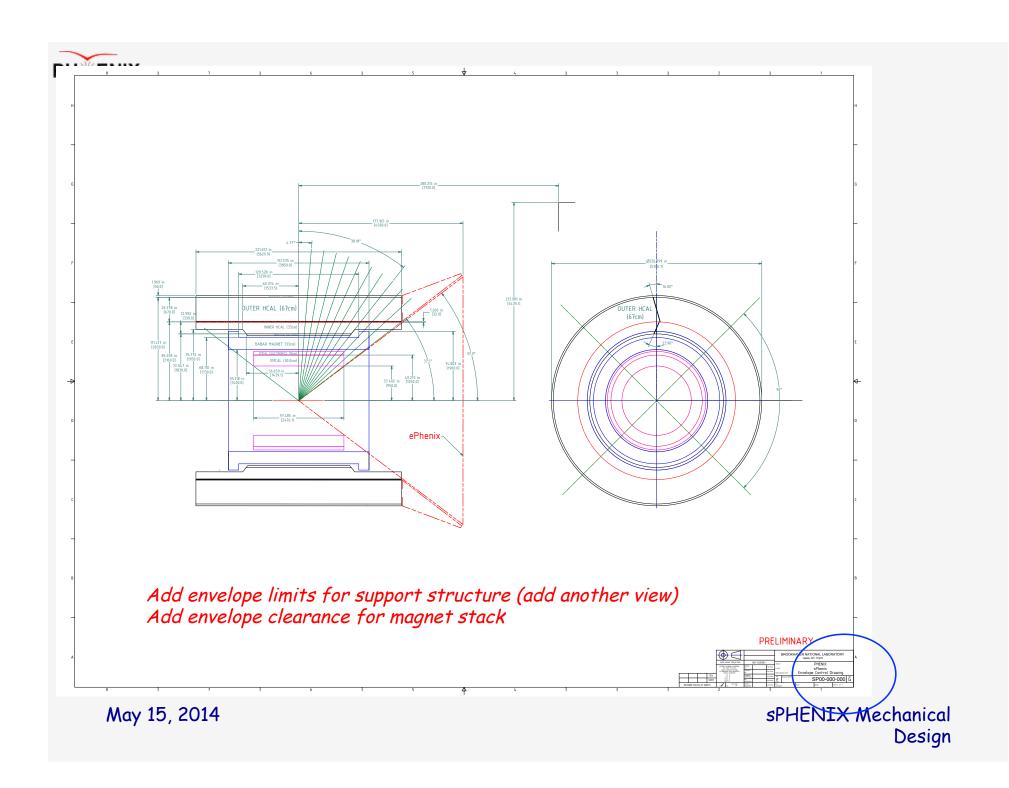
ePHENIX

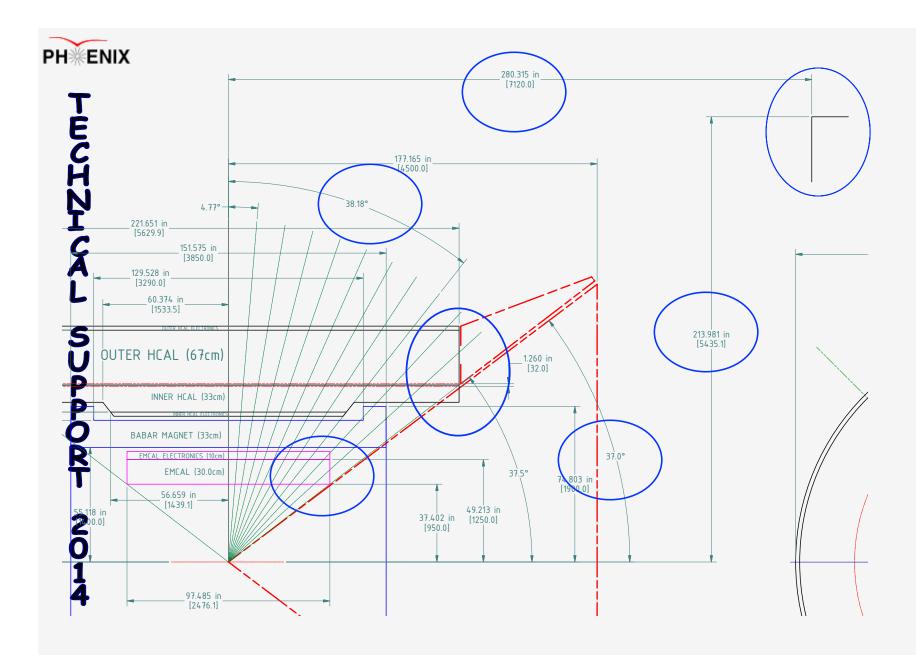




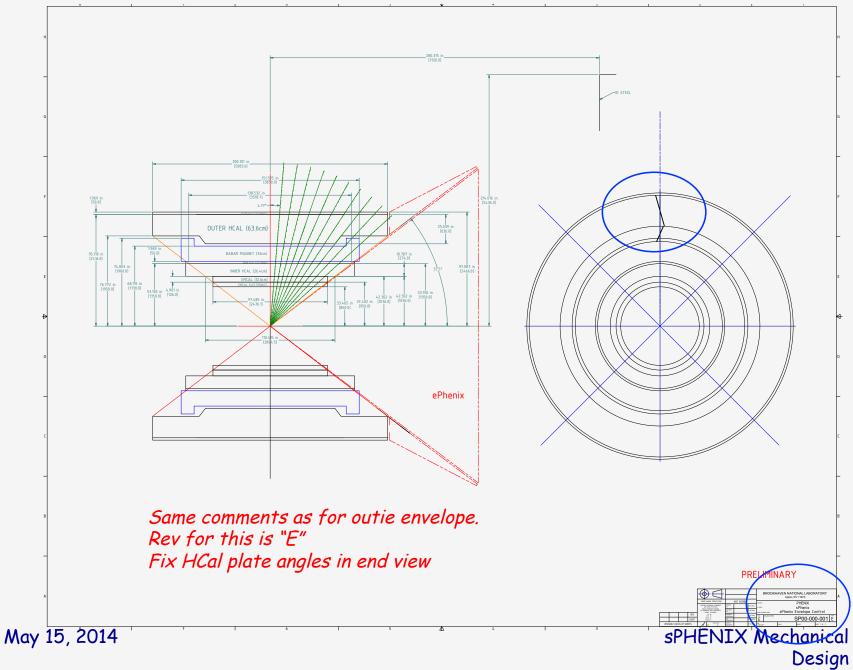
5/15/2014

13











THUHZHUAL SUPPORT NO14

sPHENIX envelope control drawing, rev F (preliminary) Now includes ePHENIX reserved space.

TECHZHUAL SUPPORT 2014

Safety and Security

1. From Ray Karol:

Five Rules for Portable Ladder Safety:

- 1.) Select the right ladder for the job
- 2.) Inspect the ladder before using it
- 3.) Set the ladder up with care
- 4.) Climb and descend ladders carefully
- · Always face the ladder and hold on with both hands
- · Carry tools on a belt or raise and lower with a hand line
- · Check rungs for slippery surfaces and obstructions
- 5.) Use safe practices when working on the ladder
- Never attempt to move, shift, or extend the ladder while in use
- Never use the top two steps of a step ("A" frame) ladder
- Never use the top three rungs of a straight/extension ladder

Pre-Use Inspection for Portable Ladders:

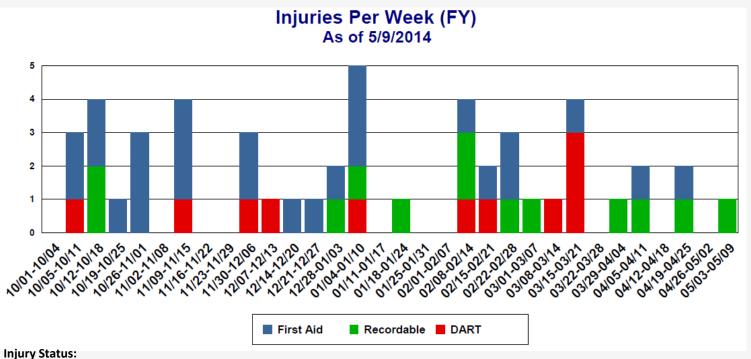
Inspect ladders before each use:

- All rungs and steps are to be free of grease, oil, and dirt
- · All fittings are tight
- Spreaders or other locking devices are in place and in working order
- Non-skid safety feet are in place
- There are no structural defects or broken parts

Note: Never use a broken ladder. Tag a broken ladder Out of Service and notify your supervisor.



PHENIX Safety and Security



FY14 YTD: DART - 11, TRC - 24, First Aid - 26 FY13: DART - 16, TRC - 38, First Aid - 53

FY12: DART - 19, TRC - 36, First Aid - 69

FY13 Injury Listing: https://intranet.bnl.gov/esh/shsd/seg/Occlnj/BNLInjuries.aspx

Recent Injuries

5/7/14 An employee had just plugged an appliance into an outlet, stood up and struck his head against an electrical cabinet, Non-Recordable causing a laceration. He required medical treatment to close the wound at the OMC.



FECHZHUAL SUPPORT NO14

Recent Events		
5/8/14	Non- Reportable	After a short loss of power, one of the fire alarm computers did not power up correctly, causing the computer terminal in the Fire House to not receive site wide trouble alarms (detector malfunctions). These trouble alarms were still being received at Police Headquarters and at Bldg 452. A fire fighter was dispatched to Bldg 452 to relay any incoming trouble alarms to the Fire house until the computer was rebooted and running correctly. (Event Link)
5/8/14	Non- Reportable	In the high bay area of Building 479, an overhead light bulb failed, causing glass fragments to fall to the floor. There were no workers in the area at the time of failure. The area was secured to prevent injury and Facilities and Operations management was notified. Corrective actions commenced almost immediately, starting with the retrieval of the broken bulb for examination and a re-lamping effort of all the high bay fixtures. (Event Link)
5/5/14	Non- Reportable	While bringing material through the large delivery door at Building 479, a fork truck struck the bottom edge of the roll-up door, which was not fully opened. There was minor damage to the door but no injuries. (Event Link)
5/5/14	Non- Reportable	While performing work in Apt 26-B, a legacy burn mark and smoke damage was discovered on a wall which was previously hidden by an occupant's bed which was pushed against it. (Event Link)



PH^{*}ENIX

Where To Find PHENIX Engineering Info

Run 14 Continues! Less than 2 months to go!



Preakness Stakes Race at Pimlico in Baltimore: this Saturday (2nd leg of triple crown)

My Picks: 1. Ride on Curlin

2. Chrome 3. Bayern



Official drink of the Preakness "the Blackeyed Susan":

1-1/4 oz Bourbon ³/₄ oz Vodka 3 oz sweet & sour mix 2 oz OJ Orange slice & cherry

- 1. Combine ingredients in cocktail shaker
- 2. Shake vigorously
- 3. Strain over ice in an official Preakness glass (collins glass)
- 4. Garnish with orange slice and cherry



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL SSint-page.htm